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CIA-RDP86-00513R001756420018-7"

TRAKHTENBERG, B.F., kand. tekhn. nauk.

Using new types of machinery steel in electric machines and
power transformers. Vest. elektroprom. 27 no.8:46-53 Ag '56.
(MLRA 10:9)

1. Kuybyshevskiy industrial'nyy institut.
(Electric machinery) (Steel)

SOV/137 59-1-1267

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 171 (USSR)

AUTHOR: Trakhtenberg, B. F.

TITLE: The Effect of Carbon and Sulfur on the Nature of Changes in Magnetic Properties of Hot-rolled Transformer Steel (Vliyaniye ugleroda i sery na kharakter izmeneniya magnitnykh svoystv goryachekatanoy transformatornoy stali)

PERIODICAL: Sb. nauchn. tr. Kuybyshevsk industr. in-ta, Mekhanika, 1958, Nr 7, pp 151-158

ABSTRACT: The grain size and principal magnetic properties of a series of hot-rolled transformer steels containing 0.009-0.05% C and 0.05-0.012% S were determined after the steels had been annealed at temperatures ranging from 750 to 1200°C. It was established that the magnetic properties of steels with a high C and S content may be improved only by means of annealing from high temperatures, which ensures intensive collective recrystallization and refining of metal; the steel then possesses sufficiently high magnetic properties to satisfy the standard specifications of power transformer design. Occurrence of decarburization and scale on the steel sheets considerably impairs its magnetic properties.

Card 1/1

M Ch

SOV/137-59-1-1268

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 171 (USSR).

AUTHORS: Trakhtenberg, B. F., Zykov, G. A.

TITLE: The Effect of Annealing Temperature on the Magnetic Properties of Hot-rolled Transformer Steel. (Vliyaniye temperatury otzhiga na magnitnyye svoystva goryachekatanov transformatornov stali).

PERIODICAL: Sb. nauchn. tr. Kuybyshevsk. industr. in-ta. Mekhanika, 1958, Nr 7, pp 159-168.

ABSTRACT: Investigations were carried out in order to evaluate the effect of annealing temperatures ranging from 750 to 1200°C, with a soaking period of 4-8 hours, on the magnetic properties of a series of hot-rolled transformer steels. It was established that a high-temperature anneal introduces an anomaly into the shape of the magnetization curves in regions corresponding to strong (greater than 5-15 oersted) and medium magnetic fields (0.2-0.5 amp-turns/cm). A number of magnetic characteristics are presented graphically as a function of the annealing temperature, and practical indications are given for the manufacture of transformer steel possessing an increased permeability in weak and medium fields (E45, E46, E47, and E48 grades).

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M. Ch.

SOV/129-59-5-5/17

AUTHOR: Cand. Tech. Sci. B.F. Trakhtenberg

TITLE: Critical Reduction of Dynamo Steel (Kriticheskiye obzhatiya dinamnoy stali)

PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Metallov, 1959, Nr 5, pp 24--28 (USSR)

ABSTRACT: In earlier work the author of this paper established (Ref 2) that transformer steel has a critical range of deformation corresponding to a reduction by 4 to 8%. After applying critical magnitudes of reduction and a low temperature recrystallization annealing, the grain size of transformer steel increases to about double and the total specific losses ($P_{15/50}$) decrease by 0.15 to 0.25 W/kg. Furthermore, the author established (Refs 2,3) that after critical reductions the magnetic induction of transformer steel drops by 1 to 3% in the range of strong fields (200 to 400 Gauss). An analysis of the recrystallization texture and of the magnetic anisotropy has shown that changes in the magnetic properties after critical reductions are associated solely with grain growth. Due to brittleness, under industrial conditions

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Critical Reduction of Dynamo Steel

only on heating the metal to 450 to 550°C, i.e. by semi-cold rolling. In this paper investigations are described which were carried out by means of dynamo steel from a normal production batch with a thickness of 0.5 mm and a Si content of 1 to 1.5%. The steel was produced in open-hearth furnaces; the reduction in the cold state varied between 2 and 15%. (The experiments were carried out at the Verkh-Isetskiy Works jointly with F. A. Vydrin and F.A. Radin). In Fig 1 the influence is graphed of the degree of deformation in the cold state on the magnetic properties and on the grain size of the dynamo steel. In Fig 2 the microstructure is graphed of dynamo steel which passed through various variants of processing. In Fig 3 the changes are entered in the specific losses and the magnetic induction as a function of the angle of cutting of the specimens relative to the direction of rolling. In Table 1 data are entered on the influence of slight degrees of reduction in the cold state on the magnetic properties of the grain size of dynamo steel. On the basis of the obtained results the following conclusions are arrived at: 1) Dynamo steel has a critical range of

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Critical Reduction of Dynamo Steel

SOV/129-59-5-5/17

deformations which corresponds to a relative reduction of 2 to 8%. After critical reductions the dynamo steel has a coarse grain structure (20 to 90 grains per mm²), and as a result of this the specific losses are reduced by 10 to 14%. 2) The slight decrease in the magnetic induction in the range of intensive fields after critical reductions (averaging 2%) is compensated by an increase in the filling coefficient of the sheet from 88 to 90% (in the hot rolled state) to 96 - 97%. 3) The use of critical reductions of dynamo steel does not involve any technological difficulty and is recommended for improving the properties of the material.

Card 3/3

There are 3 figures, 1 table and 5 Soviet references.

ASSOCIATION: Kuybyshevskiy Industrial'nyy Institut (Kuybyshev Industrial Institute)

TRAKHTENBERG, B.F.

Selecting a temperature range for the forging and die stamping of
carbon steels. Kuz.-shtam. proizv. 2 no.5:21-26 My '60. (MIRA 14:3)

(Forging)

(Sheet-metal work)

RUTNER, Ya.F., inzh.; SILIN, M.L., inzh.; TRAKHTENBERG, B.F., kand.tekhn.nauk

Simulation of temperature fields in axisymmetric sectional dies for
drop forging. Vest.mashinostr. 43 no.11:53-55 N 63. (MIRA 17:2)

FYT'YEV, Petr Yakovlevich; TRAKHTENBERG, B.F., kand. tekhn. nauk,
dots., retsenzent; RAZMIKHIN, M.I., kand. tekhn.nauk,
prof., red.; TURSKIY, F.V., red.; MIKHEYEV, N.I., red.;
VAKULOVSKAYA, T.N., tekhn. red.

[Simplified sheet bolster plate for cold die stamping]
Listovye uproshchennye podkladnye shtampy dlia kholodnoi
shtampovki. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo,
1963. 133 p. (MIRA 17:2)

TRAKTENBERG, B.F.; RUCHEN, Ya.F.

Analysis of thermal processes in swages during drop forging.
Inzh.-fiz. zhur. 6 no.7:113-120 J1 '63. (1963:16:9)

1. Industrial'nyy institut imeni V.V.Kuybysheva, Kuybyshev.
(Forging) (Thermal analysis)

U/ASD PR-4 JD/H
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62
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3-120

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EWP(k)/EWP(q)/EWT(m)/BDS

AFFTC/ASD Pf-4 JD/HW
S/0170/63/006/007/0113/0120

62
61

ACCESSION NR: AP3004293

AUTHOR: Trakhtenberg, B. F.; Ratner, Ya. F.

TITLE: Analysis of heat processes in dies in hot stamping 16

SOURCE: Inzhenerno-fizicheskii zhurnal, v. 6, no. 7, 1963, 113-120

TOPIC TAGS: heat process, die, hot stamping, thermal wear, rapid heating, temperature field

ABSTRACT: The article discusses the heat analysis of hot stamping for axially symmetric dies of the type of bodies of rotation, shown the advisability of employing the method of instantaneous concentrated sources and offers a general solution of the temperature-field problem. The problems of increasing the stability of dies are acquiring over greater importance, as they predetermine in many ways the technico-economic efficiency of accurate die stamping. Investigations of the character and kinetics of the wear of dies for hot deformation and analysis of the conditions of operation permit one to conclude that the cycle of rapid heating and cooling is the leading cause of wear.

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L 17170-63

ACCESSION RN: AP3004292

Experiments have established that with a mean die temperature of 300-400° C the peak temperature in the contact zone reaches 850-900° c, and the thermal wear of the tool is due to thermal fatigue and thermal processes proper. Hence it is important to make a quantity and time evaluation of the temperature fields in a cross-section of the die according to the technological and operational characteristics of the process, as well as of the design and material of the tool. The article discusses a part of these questions, being a first attempt at an analytical computation of temperature fields in dies. Topical headings are: 1) Heat analysis of the stamping cycle by stages (with two tables so entitled); 2) Evaluation of the order of capacity of sources; 3) change to an equivalent die. Orig. has 2 photos of a die, 3 diagrams, 2 tables and 7 numbered equations.

ASSOCIATION: Industrial'nyy institut imeni V. V. Kuybysheva, Kuybyshev
(Industrial Institute)

SUBMITTED: 02Mar63

DATE ACQ: 08Aug63

ENCL: 000

SUB CODE: PH

NO REF SOV: 003

OTHER: 000

Cord 2/2

TRAKHTENBERG, B.L., inzh.

Automatic rubberized centrifuges. Khim.mashinostr. no.3:41-
42 My-Je '63. (MIRA 16:11)

Country : USSR
Category : Human and Animal Physiology, Circulation
Abs. Jour. : Ref. Zhur. Biol., No. 2, 1959, No. 3024
Author : Orlovskiy, L. L.
Instit. : Vinnitsa Medical Institute
Title : Cardiovascular Function in Patients with the
Hallucinatory-Paranoid Form of Schizophrenia
according to the Data of Arterial Oscillometry.
Orig Pub. : Tr. Vinnitsk. med. in-ta, 1958, 15, No. 1, 169--
175
Abstract : no abstract

Card: 1/1

Catalytic conversion of allylcyclohexene, cyclohexylallene and cyclohexylallylene. R. Ya. Levina and D. M. Trakhtenberg. *J. Gen. Chem. (U. S. S. R.)* 6, 704-71 (1936); *cf. C. A.* 19, 3314⁹.

$\text{CH}_2(\text{CH}_2)_5\text{CH}=\text{CH}_2$ (I), $\text{CH}_2(\text{CH}_2)_4\text{CH}=\text{CH}-\text{C}(\text{CH}_3)=\text{CH}_2$ (II), and $\text{CH}_2(\text{CH}_2)_3\text{CH}=\text{CH}-\text{C}(\text{CH}_3)_2\text{CH}_2$ (III) conducted over Pt-C (30%) catalyst at 200-5° in a weak CO_2 current at a rate of 3-4 drops a min., are completely catalyzed into a mixt. of 65% PhPr and 35% propylcyclohexane (IV). Freed from PhPr with 7% fuming H_2SO_4 , washed, dried and

redistd., IV b.p. 153-4°, d_4^{20} 0.7971, n_D^{20} 1.4382, M. R. 41.53 (calcd. 41.50). Thus all 3 hydrocarbons with allene and acetylene side chains gave identical products of irreversible catalysis. The general scheme of conversion is: $3 \text{C}_8\text{H}_{14} \rightarrow \text{C}_8\text{H}_{16} + 2 \text{C}_6\text{H}_{12}$. The mechanism of conversion is explained by isomerization with transposition of the double bond into the ring. The intermediate cyclohexene or cyclohexadiene hydrocarbons immediately undergo irreversible catalysis. The cyclic hydrocarbons with an acetylene group in the side chain are first isomerized into the allene compds. and then react as above. Allylcyclohexanol (V), b.p. 69-71°, d_4^{20} 0.8907, n_D^{20} 1.476, M. R. 42.52 (calcd. 42.62), was obtained in 31% yield by condensing cyclohexanone with $\text{CH}_2=\text{CHCH}_2\text{Cl}$ (VI) and Mg

(cf. Matznevich, *C. A.* 6, 490). V (20 g.) was twice redistd. with 10 g. of cryst. $(\text{CO}_2\text{H})_2$ under a dephlegmator at 100-20°. The distillate, after washing with H_2O and drying with CaH_2 , was distd. over Na, giving 30% I, b.p. 158-9°, d_4^{20} 0.8425, n_D^{20} 1.477, M. R. 41.95 (calcd. 40.63). $\text{C}_8\text{H}_{14}\text{Cl}$, b. 141-3°, n_D^{20} 1.4572, resulted by heating concd. HCl with $\text{C}_8\text{H}_{14}\text{OH}$ (obtained by hydrogenation of PhOH in an autoclave in a pressure bottle at 105-10° (Markovnikov, *Ann.* 302, 11 (1880)). This, treated with VI and Mg and then redistd. over Na, gave $\text{C}_8\text{H}_{14}\text{CH}=\text{CH}_2$, b. 149-51°, d_4^{20} 0.8150, n_D^{20} 1.454, M. R. 41.2 (calcd. 41.09). This, treated with Br in Et_2O at 0° and redistd., gave $\text{C}_8\text{H}_{14}\text{CH}_2\text{CHBrCH}_2\text{Br}$ (VII), b. 140-1°, b.p. 163°, d_4^{20} 1.5248, n_D^{20} 1.528, M. R. 57.35 (calcd. 57.09). VII (35 g.) in 35 cc. alc. and 70 g. KOH in 225 cc. alc., digested on a water bath, gave 27% III, b.p. 157.5-60°, d_4^{20} 0.8449, n_D^{20} 1.4605, M. R. 39.62 (calcd. for C_8H_{14} with a triple bond 39.50). The same procedure was followed for the prepn. of II, only the cleavage of 2 HBr from VII was effected not with alc. KOH but by distg. twice 65 g. VII with 150 g. quinoline (VIII) at 160-70°. The distillate was freed from VIII with $(\text{CO}_2\text{H})_2$, then washed, dried and redistd., giving II, b.p. 155-6°, d_4^{20} 0.8239, n_D^{20} 1.4658, M. R. 40.90 (calcd. for C_8H_{14} with 2 double bonds 40.63). Chas. Blanc

TRACHTENBERG, D.M.

"Sur la question du mecanisme de la catalyse irreversible des hydrocarbures cycliques non satures a liaison double et triple en dehors du cycle". Iewina, R.J., Petrow, D. A. et Trachtenberg, D.M. (p. 1496)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1936, Vol. 6, No. 10

12

CA

Ketones. I. Condensation of ketones with cyanoacetic acid. M. M. Shemyakin and D. M. Trakhtenberg *Compt. rend. acad. sci. U. R. S. S.* 24, 763 7(1970) (in English); cf. *C. A.* 34, 89. When cyclopentanone, cyclohexanone, Me₂CO, MeEtCO and α-hydindone (I) are condensed with 2-3 times the required amt. of CNCH₂-CH₂II (II) and piperidine at 100-15° for 2 hrs., 70-90% of the corresponding nitriles is obtained. No intermediate cyano acid appears in the product. The condensation reaction probably precedes the decarboxylation. In aliphatic compds., the double bond appears in the ring, in aromatic compds., it is in the position -C=CHCN. Me-PhCO and Ph₂CO do not react with II. The compd. from I and II m. 68-70° instead of 18° as Ingold and Thorpe (*C. A.* 13, 1211) report for α-hydindonylacetonitrile. Since the new compd. gives no α-hydindone on oxidation and does not add Br₂, it is probably the normal compd. and the compd. of I. and T. is hydindonyliden-acetonitrile. H. M. Leicester

ASB-514 METALLURGICAL LITERATURE CLASSIFICATION

TRACHTENBERG, D. M.

"Investigation in the Series of Ketones. II. Condensation of Monoketones with Cyanoacetic Acid." Trachtenberg, D. M. and Shemyakin, M. M. (p. 480)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1943, Volume 13, no. 6.

All-Union Sci. Expt. Work on Fib. Gorky
Textile Inst

PROCESSING AND PROPERTIES INDEX	
10	<p>Ketone series. III. Condensation of the esters of keto acids and diketones with cyanoacetic acid. M. M. Shenyakin and D. M. Trakhtenberg. <i>J. Gen. Chem.</i> (U.S.S.R. K.) 19: 332 (1943) (English summary); cf. <i>C. A.</i> 38, 3208. It is shown that esters of aliphatic α- and γ-keto acids and alkylic and aliphatic β-diketones can condense with $\text{NCCH}_2\text{CO}_2\text{Et}$, analogously to aliphatic and alkylic monoketones, with formation of the corresponding unsatd. nitriles. Introduction of a Ph radical adjacent to the CO group hinders this reaction in monoketones. β-quinones are also incapable of condensation. $\text{AcCH}_2\text{CO}_2\text{Et}$ (10 g.), 15 g. $\text{NCCH}_2\text{CO}_2\text{Et}$ (I) and 19 cc. piperidine heated for 3 hrs. at $100-10^\circ$, then at $120-5^\circ$ for 0.5 hr., gave 2 g. $\text{NCCH}_2\text{CMeCH}_2\text{CO}_2\text{Et}$, b.p. $110-18^\circ$. Et levulinate (5 g.), 0.75 g. I and 8.4 g. piperidine heated for 2.5 hrs. at $110-15^\circ$, then for 0.5 hr. at 120°, gave 1.5 g. $\text{NCCH}_2\text{CMeCH}_2\text{CH}_2\text{CO}_2\text{Et}$, b.p. $130-10^\circ$. Dimesone (2 g.), 5 g. I and 7 cc. piperidine heated to $110-15^\circ$ for 3 hrs. gave the dinitrile $\text{C}_{10}\text{H}_{16}\text{N}_4$, m. $80-80^\circ$ (dil. EtOH). Phloroglucinol (1 g.), 0.2 g. I and 8 cc. piperidine heated for 2 hrs. at $115-25^\circ$ gave 1.1 g. pink solid, m. $143-5^\circ$ (decompn.), having the compn. C 50.17%, H 0.06% and N 12.17%. Its structure has not been established. $\text{C}_6\text{H}_5\text{Ac}$ (1.3 g.), 15.7 g. I and 19.6 cc. piperidine heated for 3 hrs. at $110-15^\circ$ gave 1.5 g. of a yellow liquid, b.p. $58-60^\circ$, contg. 22.7% N. Ethoxycetylacetone (10 g.), 25 g. I and 22 cc. piperidine heated for 3.5 hrs. at $115-25^\circ$ gave 1.5 g. of a product, b.p. $58-60^\circ$, contg. 21.45% N. Similar reaction with quinone yielded only hydroquinone. G. M. Kozlovskii.</p>

BAYKINA, V.M.; ROZANOVA, T.N.; TRAKHTENBERG, D.M.

Studies on the typical composition of erythromycin produced
by strain No. 2577 of Actinomyces erythreus. Antibiotiki 8
no.5:466-472 (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotkov.

ROZENFEL'D, G.S.; ROSTOVTSEVA, L.I.; BAYKINA, V.M.; TRAKHTENBERG, D.M.
KHOKHLOV, A.S.. Primali uchastiye: LOKSHIN G.B.

Albonursin, a substance accompanying the antibiotics nystatin
and albofungin. Antibiotiki 8 no.3:201-207 Mr'63

(MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov
i Institut khimii prirodnkh soedineniy AN SSSR.

TRAKHTENBERG, D.M., kandidat khimicheskikh nauk.

New works on the synthesis of penicillin. Antibiotiki 6 no.6:3-25 '53.

(MIRA 6:11)

(Penicillin)

TRAKHTENBERG, D.M.

New antibiotics: magnamycin, erythromycin and azacerin. Med.prom.
no.4:37-40 O-D '55. (MLRA 9:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov
(ANTIBIOTICS
magnamycin & azacerin, pharmacol.)
(ERYTHROMYCINE
pharmacol.)

TRAKHTENBERG, D.M., kandidat khimicheskikh nauk

Chemistry and technology of antibiotic production; secretion, purification and chemical nature of antibiotics of the erythromycin group, of magnamycin; review of foreign periodical literature.
Antibiotiki 9 no.5:22-36 '56. (MIRA 9:10)

(ERYTHROMYCIN, preparation of
secretion, purification & chem. nature, review)
(CARBOMYCIN, prep. of
same)

BRINBERG, S.L.; TRAKHTENBERG, D.M.; SHORIN, V.

Second All Union Conference on Antibiotics. Antibiotiki 2 no.5:
54-62 S-O '57. (MIRA 10:12)
(ANTIBIOTICS)

TRAKHTENBERG, D.M.

TRAKHTENBERG, D.M.; RODIONOVSKAYA, E.I.; GORDINA, Z.V.; SERGEYEVA, L.N.

Producing a crystal erythromycin base. Med.prom. 11 no.7:14-19
Jl '57. (MLRA 10:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov
(ERYTHROMYCIN)

BEKKER, Z.E., BEREZINA, Ye.K. VEYS, R.A., MILOVANOV, S.N., OSTROUKHOV, A.A.
RODIONOVSKAYA, E.I., TRAKHTENBERG, D.M., KHOZHLOV, A.S., CHAYKOVSKAYA, S.M.

Velutin, an antibiotic from the mold fungus *Aspergillus velutinus*.
[with summary in English]. Antibiotiki 3 no.4:104-105 J1-Ag '58
(MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS)

TRAHTENBERG, D.M.; RODIONOVSKAYA, E.I.; BAYKINA, V.M.; KHOKHLOV, A.S.

Preliminary comparative data on the properties of antibiotics of the streptothricin group obtained from various types of actinomycetes [with summary in English]. Antibiotiki 3 no.6:36-41 N-D '58.
(MIRA 12:2)

- .1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS, effects,
streptothricin group of antibiotics obtained from
various strains of Actinomyces, comparison (Rus))

NO. 1)

507/30-39-1-56/77
Akhmedov, E. K., Kuchayeva, A. O., Candidates of Biological Sciences

TITLE:

Use of Antibiotics in Plant Cultivation (Primeneniye anti-

ABSTRACT:

biotikov v rastenivodstve).

Vegetable Landmark near SSB, 1959, No. 1, pp. 142-143 (USSR)

A conference dealing with this subject took place in Tver from 6 to 13 October, 1959. It had been called by the Institute of Microbiology and Virology (Virologicheskiy Institut) of the Academy of Sciences (USSR), the Vsesoyuznyy Institut kolektsionirovaniya mikroorganizmov (Vsesoyuznyy Institut kolektsionirovaniya mikroorganizmov) (VSIK) and the Institute for Agricultural Microbiology of the USSR (Institut d'agrobiologii).

The Institute of Microbiology of the Academy of Sciences of the USSR, in its report about antibiotic substances which presents the development of higher plants, E. K. Akhmedov reported on investigations of several fungi which carried out by Kharkov mycologists on soil fungi from the USSR and the utilization in the fight against agricultural pests and the utilization in the fight against the diseases of plants.

E. K. Akhmedov dealt with the utilization of the fungus *Trichoderma reesei* in fighting the diseases of cotton bushes, potatoes and other crops. He dealt with the investigations of *Trichoderma reesei* in fighting the diseases of cotton bushes, potatoes and other crops. He dealt with the investigations of *Trichoderma reesei* in fighting the diseases of cotton bushes, potatoes and other crops.

E. K. Akhmedov dealt with the utilization of the fungus *Trichoderma reesei* in fighting the diseases of cotton bushes, potatoes and other crops. He dealt with the investigations of *Trichoderma reesei* in fighting the diseases of cotton bushes, potatoes and other crops.

E. K. Akhmedov dealt with the utilization of the fungus *Trichoderma reesei* in fighting the diseases of cotton bushes, potatoes and other crops. He dealt with the investigations of *Trichoderma reesei* in fighting the diseases of cotton bushes, potatoes and other crops.

E. K. Akhmedov dealt with the utilization of the fungus *Trichoderma reesei* in fighting the diseases of cotton bushes, potatoes and other crops. He dealt with the investigations of *Trichoderma reesei* in fighting the diseases of cotton bushes, potatoes and other crops.

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Card 3/4

TRAKHTEMBERG, D.M.

TRAKHTENBERG, D.M.; CHERENKOVA, L.V.; KHOKHLOV, A.S.

Isolation and properties of the antiviral antibiotic violarin.

Antibiotiki 4 no.5:7-11 S-O '59.

(MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS chem.)

TRAKHTENBERG, D.M.; RODIONOVSKAYA, E.I.; KLEYNER, G.I.; SHTAMER, V.Ya.

Study of some physicochemical properties of cleandomycin. Antibiotiki 10 no.11:982-989 N '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva, i Rizhskiy zavod medpreparatov. Submitted January 16, 1965.

SULIMOV, A.D.; KOZHINA, I.N.; TRAKHTENBERG, D.M.

Production of naphthalene from petroleum raw stock. *Khim. i
tekh.topl. i masel* 10 no.1:17-20 Ja '65.

(MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniya iskusstvennogo zhiznennogo topliva.

TRAKHTENBERG, D.M.; KAN, A.M.

Isolation of the antibiotic phyto bacteriomyacin by the ion-exchange
method and studies on its properties. Antibiotiki 10 no.1:38-43
Ja '65. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

YERMOL'YEVA, Z.V.; TRAKHTENBERG, D.M.; BONDARENKO, B.N.

Isolation and characteristics of prodigiosin from *Bacterium prodigiosum* in submerged cultures. Antibiotiki 9 no.5:397-403 My '64. (MIRA 18:2)

1. Tsentral'nyy institut usovershenstvovaniya vrachey i Vsesoyuznyy nauchno-issledovatel'skiy antibiotikov, Moskva.

SOLOV'YANA, N.E.; TAYG, N.M.; TRAKHTENBERG, D.M.; BIRLOU, L.Y.; KOSOLINA, N.A.

Characteristics of the organism producing the antiviral antibiotic
vaccinocidin, its isolation and properties. Antibiotiki 9 no.7:596-
602 J1 '64. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

TRAKHTENBERG, D.M.; BIRLOVA, L.V.; BLINOV, N.O.; ROZANOVA, T.N.

Isolation and properties of some antibiotics-pigments from a
culture fluid of strain No. 2844-31 of Act. prunicolor.
Antibiotiki 7 no.9:776-783 S '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS)(ACTINOMYCES)

TRAKHTENBERG, D.M.____

"Chemistry of antibiotics" by M.M.Shemiakin and others. Vols. 1 and
2. Reviewed by D.Y Trakhtenberg. Antibiotiki 7 no.8:765-766 Ag '62.
(MIRA 15:9)

(ANTIBIOTICS)

BAYKINA, V.M.; BIRLOVA, L.V.; TRAKHTENBERG, D.M.

Comparative study by the method of counterflow distribution of the composition of the antibiotic, Violarin "A" and of the Actinomyces strains No. 452-7 and 12-12. Antibiotiki 7 no.8:698-702 Ag '62.

(MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS) (ACTINOMYCES)

TRAKHTENBERG, D.M.; BIRLOVA, L.V.; BAYKINA, V.M.

Isolation and properties of an antiviral antibiotic, violarine
B. Antibiotiki 6 no.7:603-609 JI '61. (MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS)

SEменова, V.A.; SOLOV'YEVA, N.K.; RUDNOSKAYA, I.S.; DMITRIYEV, V.S.;
TRAKHTENBERG, D.M.; RODIONOVSKAYA, E.I.; CHERENKOVA, L.V.;
KHOKHLOV, A.S.; BYCHKOVA, M.M.; GINZBURG, G.N.

Antibiotic phytobacteriomycin, effective in controlling bacteriosis
in plants. Trudy Vses. inst. sel'khoz. mikrobiol. 17:131-139 '60.
(MIRA 15:3)

(Antibiotics) (Bacteria, Phytopathogenic)

TRAKHTENBERG, D.M.; RODIONOVSKAYA, E.I.

Production and properties of certain derivatives of erythromycin.
Antibiotiki 5 no.3:22-24 My-Je '60. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ERYTHROMYCIN)

KLEYNER, G.I.; IONOVA, N.V.; TRAKHTENBERG, D.M.; ROSTOVTSEVA, L.I.

Isolation and studies on highly purified nystatin preparations.
Antibiotiki 6 no.3:200-203 Mr '61. (MIRA 14:5)

1. Rizhskiy zavod medpreparatov (for Kleyner, Ionova).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov (for Trakhtenberg, Rostovtseva).
(MYCOSTATIN)

TRAKHTENBERG, D.M.; RODIONOVSKAYA, E.I.; GORDINA, Z.V.; ROSTOVTSEVA,
L.I.; KLEYNER, G.I.; NAGLE, A.M.

Studies on the properties and chemical purification of nystatin.
Antibiotiki 5 no. 5:9-14 S-0 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov
(for Trakhtenberg, Rodionovskaya, Gordina and Rostovtseva).
2. Rizhskiy zavod meditsinskikh preparatov (for Kleyner and Nagle).
(NYSTATIN)

TRAKHTENBERG, D.M.; RODIONOVSKAYA, E.I.; GORDINA, Z.V.; ROSTOVTSEVA, L.I.;
KLEYNER, G.I.; NAGLE, A.M.; LAZDYNYA, V.Ya.

Isolation and chemical purification of nystatin. Part 1: Isolation
of nystatin from moist mycelium. Med. prom. 14 no.8:18-23 Ag '60.
(MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov i
Rizhskiy zavod meditsinskikh preparatov.
(MYCOSTATIN)

TRAKHTENBERG, D. M., BRIMBERG, S. L. (USSR)

"Influence of Phosphorus on the Microsynthesis of Erythromycin."

Report presented at the 5th International Biochemistry Congress, Moscow,
10-16 August 1961

PETROVA, A.F.; KHALILI, N.A.; SHTAMM, L.K.; TRAKHTENBERG, D.M.; RODIONOVSKAYA,
E.I.; GORDINA, Z.V.

Extraction of a crystalline erythromycin base from aqueous solutions.
Med. prom. 14 no.9:32-36 S '60. (MIRA 13:9)

1. Sverdlovskiy zavod meditsinskikh preparatov i Vsesoyuznyy nauchno-
issledovatel'skiy institut antibiotikov.
(ERYTHROMYCIN)

1ST AND 2ND GROUPS

PROCESSES AND PROPERTIES INDEX

2

The applicability of the theory of Debye and Hückel to aqueous solutions. A. I. Brodskii and P. I. Trakhtenberg. *Compt. rend. acad. Sci. (U. R. S. S.)* [N. S.] 171: 207-1 (in German 493-3) (1954). - The activity coeff. of LiCl in 120-AmOH , found from the distribution coeff. of LiCl between H_2O and 120-AmOH in the range $8.6\text{--}0.15\text{ M}$ $100\text{ g. of H}_2\text{O}$ soln., agrees with the value given by the Debye-Hückel theory. Louis Goldman

ANAL. & METALLURGICAL LITERATURE CLASSIFICATION

GROUP 1: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 2: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 3: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 4: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 5: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 6: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 7: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 8: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 9: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 10: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND ORDER										PROCESSES AND PROPERTIES INDEX										100 AND 4TH ORDER																																																																					
<div style="display: flex; justify-content: space-between;"> BC B-I-10 </div> <div style="text-align: center; margin-top: 100px;"> <p>Magnesia-patty for porcelain insulators. M. A. Thompson (Nov. Tech. Magazine, 1935, No. 24, 14-16). The patty, consists of MgO 26, eq. MgCl₂ (41.30) 44; powdered porcelain (80-mesh) 26 pts. It must be used within 2 hr. of mixing, and hardens in 2-4 hr. The surface should be varnished. Ch. A-A-101</p> </div>																																																																																									
<div style="display: flex; justify-content: space-between;"> <div> <p>COMMON ELEMENTS</p> <p>OPEN</p> <p>MATERIALS INDEX</p> </div> <div> <p>ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <p>FROM SYNOPTIC</p> </div> <div> <p>FROM SUMMARY</p> <p>FROM SUMMARY</p> </div> </div>																																																																																									
<table border="1"> <thead> <tr> <th colspan="10">1ST AND 2ND ORDER</th> <th colspan="10">PROCESSES AND PROPERTIES INDEX</th> <th colspan="10">100 AND 4TH ORDER</th> </tr> </thead> <tbody> <tr> <td colspan="30"> <!-- Detailed grid content would follow here, but it is mostly illegible in the scan --> </td> </tr> </tbody> </table>																														1ST AND 2ND ORDER										PROCESSES AND PROPERTIES INDEX										100 AND 4TH ORDER										Detailed grid content would follow here, but it is mostly illegible in the scan																													
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1ST AND 2ND CODES										PROCESSING AND PROPERTY INDEX										1ST AND 2ND CODES									
<p>Activity of solutions of lithium chloride in isoamyl alcohol. F. I. Trakhtenberg and A. I. Brulskii. <i>J. Phys. Chem. (U. S. S. R.)</i> 16, 725-30 (1967). Data are given on the distribution coeff. for LiCl between water and iso-</p> <p>AmOH at concns. of LiCl in H₂O from 0.0004 up to 0.08 N. Throughout this range, for $t = 25^\circ$, the ratio of the concns. in H₂O and iso-AmOH is $1:311 \pm 12$. It is concluded that in iso-AmOH, LiCl mole. are practically completely dissociated into ions. Up to 0.03 N the Debye-Huckel formula assuming a radius of 6 Å. gives excellent results, while the Grahame formula with $r = 10$ Å. holds up to 0.08 N, with excellent agreement for the lower concns. in both cases.</p> <p style="text-align: right;">P. H. Rathmann</p>																													
<p>ASB-55A METALLURGICAL LITERATURE CLASSIFICATION</p>																													

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756420018-7

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756420018-7"

Activity of solutions of lithium chloride in isomyl alcohol. P. I. Traubenberg and A. I. Brodskii. *Acta Physicochim. U. R. S. S. S.* 8, 227-35 (1938) (in French). See C. A. 33, 6683.

Ca

Potential of lithium amalgam and the activity of lithium ions in isocamyl alcohol. F. I. Trakhtenberg. *J. Phys. Chem.* (U. S. S. R.) 12, 800-8(1930); cf. C. A. 32, 60437. —Napil. data are given for the cell $\text{Li}|\text{LiCl}|\text{AgCl}|\text{Ag}$ in isocamyl alc. at 25°, for concns. of LiCl from 0.003 to 0.30 *M*. The cell behaves normally, i. e., LiCl in isocamyl alc. is completely dissociated. The zero potential is 1.800 ± 0.005 v. Some log γ values are -0.388, -0.440, -0.628, -1.068 and -1.325 for $m = 0.00378, 0.00800, 0.0102, 0.634$ and 0.1909, resp. The Debye-Hückel law holds with $D = 12.9$; for \sqrt{m} less than 0.1, the second approximation also holds. The av. ionic radius is 1.72 Å. F. H. Rathmann

Inst.-Phys. Chem. P. S. Zhuravskiy, A.S. Ukr. SSR, Dnepropetrovsk

C.A.

Determination of the dissociation constants of barium ethyl phosphate, $\text{BaC}_2\text{H}_5\text{PO}_4$. E. I. Trakhtenberg (Med. Inst., Dnepropetrovsk). *Zhur. Fiz. Khim.* 24, 871-4 (1950).— BaEtPO_4 (I) does not completely dissociate, and the \log of the dissociation constant is -2.75 . The Et group does not show a positive effect on the dissociation of I. The mobility of the EtPO_4^{2-} ion is $59.30 \Omega^{-1} \text{ cm}^2$. Paul W. Howerton

✓ The dissociation of the magnesium and calcium salts of phosphoric esters. R. I. Prukhalovskaya and H. I. Prukhalovskaya (Sov. Med. Inst. Dnepropetrovsk). Khim. Zhur. 20, 243-6 (1954).—Dissociation constants were detd. for the Mg and Ca salts of the phosphoric acid esters, ethyl phosphate and glycerophosphate. MgH_2PO_4 , CaH_2PO_4 , and $Ca[C_2H_4(OH)_2PO_3]$ are not completely dissociated in H_2O . The Mg salt dissociates less than the Ca salt owing to its smaller radius.

J. Rovtar Leach

(1)

Jan

5(3),5(2)

AUTHORS:

Ryss, I. G., Trakhtenberg, F. I.

SOV/78-4-6-36/44

TITLE:

The Hydrofluorides of Aniline (Gidroftoridy anilina)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6,
pp 1431 - 1436 (USSR)

ABSTRACT:

The solubility of the hydrofluorides of aniline was investigated in hydrofluoric acid at 0° and 20° and the results are given in table 1. The phases $[C_6H_5NH_3]F \cdot H_2O$ and $[C_6H_5NH_3]HF_2$ were determined. The "eutonic" solution contains at 0° 12.11% $[C_6H_5NH_3]F$ and 43.89% $[C_6H_5NH_3]HF_2$. The compound does not pass over into polyhydrofluoride at -18° in the case of an increase of the HF-concentration up to 52%. The dissociation degree of aniline fluoride was calculated at 0°. The compounds $C_6H_5NH_2 \cdot 3HF \cdot 0.5H_2O$ (Ref 1) and $C_6H_5NH_2 \cdot 4HF$ (Ref 3) described in the publications are probably hexafluoro-silicates of aniline. There are 1 figure, 1 table, and 7 references, 4 of which are Soviet.

SUBMITTED:

March 25, 1958

Card 1/1

TRAKHTENBERG, F. M.
TRAKHTENBERG, F.M.

Effect of the auto-demagnetization process on the value of residual induction in a sinusoidally and longitudinally magnetized ferro-magnetic sound carrier. Trudy Kom. po akust. no.5:67-82 '50.(MLRA 7:7)
(Magnetic recorders and recording)

DOMRACHEV, N., otv. red.; PITIRIMOV, V., red. · BELYAYEV, G.,
red.; BIRYUKOV, G., red.; RUMYANTSEVA, V., red.;
SOLODYANNIKOV, A., red.; TRAKHTENBERG, G., red.

[Give way to the new and the advanced] Dorogu novomu,
peredovomu. Kirov, Izd-vo "Kirovskaya Pravda, 1961. 58 p.
(MIRA 18:3)

1. Obshchestvo po rasprostraneniyu politicheskikh i nauch-
nykh znaniy RSFSR. Kirovskoye oblastnoye otdeleniye.

TRAKHTENBERG, G., kand.tekhn.nauk

Consumer demand and orders placed with industry. Sov. tog. 34
no.8:16-19 Ag '61. (MIRA 14:8)

(Marketing research)

TRAKHTENBERG, U.

improve the organization of the clothing trade. Sov. torg. 33
no.6:3-8 Je '59. (MIRA 12:8)
(Clothing industry)

TRAKHTENBERG, Grigoriy Lazarevich; SEREBRYAKOV, S.V., red.

[Methods of studying consumer demand for industrial goods] Metody
izucheniia pokupatel'skogo sprosa na promyshlennyye tovary, pod
red. S.V.Serebryakova. Moskva, Gos.izd-vo trgovoy lit-ry, 1957.
126 p. (MIRA 12:4)

(Russia--Manufactures)

TRAKHTENBERG, G.

Methods of organizing orders. Sov.torg. no.6:16-22 Je '57.
(Retail trade) (VLRA 10:8)

YERMAK, I.I.; TRAKHTENBERG, G.Kh.

Continuous lines for manufacturing parts of cutting chains.
Mekh.i avtom.proizv. 14 no.9:26-29 S '60. (MIRA 13:9)
(Automatic machinery)

TRAKHIMBERG, G. KH.

Novyi standart po technike bezopasnosti (Abrazivnyi instrument. Pravila i normy bezopasnosti) (Vestn. Mash., no. 3, p. 57-61)

New standard for accident prevention (Abrasive instrument. Safety regulations and norms)

ILC: TSh.Vh

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

TRAKHTENBERG, G. Kh.

"Investigation of Some Problems of Machining Precision in a Machine Building Plant." Sub 1 Jun 51, Moscow Engineering Economics Inst: imeni Sergo Ordzhonikidze

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

GORDON, V.O., professor; TRAKHTENBERG, G.Kh., inzhener.

New standards for mechanical drawings used in machinery design.
Vest.mash. 27 no.7:68-72 J1 '47. (MLRA 9:4)
(Mechanical drawing--Standards) (Machinery--Design)

TRAKHTENBERG, G.Kh., inzhener.

Tolerances and reserves in production. Vest.mash.34 no.4:29-34 Ap '54.
(MLRA 7:5)
(Tolerance (Engineering))

GRINGAUZ, Klara Il'inichna; SABLINA, Tamara Nikolayevna; TRAKHTENBERG,
G.L., otv.red.; GLAZUNOVA, V.V., red.; MEDRISH, D.M., tekhn.red.

[Study of the consumers' demand for fabrics; based on practices
of the Moscow Province Trade Center for Cotton and Linen Goods
of the Main Administration for the Textile Trade] Izucheniye poku-
patel'skogo sprosa na tkani; iz opyta raboty Moskovskoi oblastnoi
torgovoi bazy khlopkhatobumazhnykh i l'nianyykh tovarov Glavtekstil'-
torga. Moskva, Gos.izd-vo torg.lit-ry, 1957. 38 p.

(MIRA 13:11)

(Consumers' preferences) (Textile industry)

~~SECRET~~
BIBIN, Leonid Pavlovich; VARFOLOMEYEV, F.G.; KALGANOV, D.I.; OSTANOVSKIY, T.S.; PUSHKIN, V.S.; TRAKHTENBERG, G.L.; MAKSIMOVICH, A.G., red.; SUDAK, D.M., tekhn.red.

[School and office supplies, musical instruments, photographic supplies, radio equipment, athletic goods, hunting and fishing equipment, toys] Tovary shkol'no-pis'mennye, kantseliarskie, muzykal'nye, foto, radio, sportivnye, okhotnich'i, rybolovnye, igrushki. Moskva, Gos. izd-vo torg. lit-ry, 1958. 328 p. (MIRA 11:4)
(Manufactures)

TRAKHTENBERG, G.M., inzh.

Using a pendulum as slip angle transmitter at lateral motion of airplanes in a horizontal plane. Nauch.dokl.vys.shkoly; mash.i prib. no.1:236-247 ' 58. (MIRA 12:1)

1. Predstavleno kafedroy "Giroskopicheskiye pribory i ustroystva" Moskovskogo vysshego tekhnicheskogo uchilishcha imeni N.E. Bauman.

(Automatic pilot (Airplanes))

TRAKHTENBERG, G.M.

Equations of the motion of the flight control system of an
airplane: servomotor-gear-servotab. Izv. vys. ucheb. zav.?
av. tekhn. 7 no. 4:32-39 1964 (MIRA 18:1)

L 31895-66 EWT(c)/EWT(m)/EWP(v)/EWP(k)/I-2 IJP(c) EM/BC

ACC NR: AP6011788

SOURCE CODE: UR/0147/66/000/001/0080/0089

AUTHOR: Trakhtenberg, G. M.

ORG: none

TITLE: Equation of motion for aircraft rudders controlled by an electric pulsed autopilot with direct feedback

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 1, 1966, 80-89

TOPIC TAGS: aircraft; automatic pilot, flight control system, servomechanism, aircraft elevator, rudder

ABSTRACT: The author studies the use of electric autopilots working under pulsed conditions in automatic flight control systems. This type of autopilot has three electric servomechanisms serving as output units. The servomechanisms control the ailerons, direction and altitude. Transducer voltage signals are fed into an amplifier and the amplifier transmits pulsed dc signals with a given frequency to the servomechanisms. The servomechanism output shaft is engaged or disengaged by solenoids. A unidirectional continuous rotation dc motor is used for starting the servomechanisms. The power of the motor is transmitted by a drum with a special transmission mechanism. Equations of motion are presented for ailerons under autopilot control. Curves are given for: the

UDC: 629.13.01.014.5

Card 1/2

L 31895-66

ACC NR: AP6011789

performance of the servomechanism where torque is a function of drum rotation, steering system deviation during one pulse period, angular velocity of the ailerons as a function of stress and their deflection, and the stresses in the autopilot amplifiers as a function of the angles of deviation for servomechanism drums. Linear equations are given for analyzing the dynamics of an aircraft control system for the case when the required angles of deviation for the rudder are not great and where the maximum possible angles in terms of servomechanism power are 3 to 4 times greater than those required. The turning rate of the rudder depends on the input signal and not on deviation. Non-linear equations are given for analyzing the dynamics of an aircraft control system for the case when the maximum rudder deviations determined by the power of the servomechanisms are not significant and are equal to the required angles. Orig. art. has: 8 figures, 15 formulas.

SUB CODE: 20 01/ SUBM DATE: 07Sep64/ ORIG REF: 001

Card 2/2 *mc*

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CIA-RDP86-00513R001756420018-7"

... in the appropriate to this case, the author makes use of the first language

TRAKHTENBERG, I.

Organizing physical training activities during the rest period
in industry. Sots.trud no.3:64-71 Mr '58.
(MIRA 13:3)

(Industrial hygiene)
(Physical education and training)

TRAKHTENBERG, I., dotsent, kandidat meditsinskikh nauk (Kiyev).

Active recreation. Nauka i zhizn' 23 no.10:23-24 0 '56. (MLRA 9:11)

(Exercise)

TRAKHTENBERG, I.

Technological aesthetics and improving production conditions. Sots.
trud 8 no.3:57-61 Mr '63. (MIRA 16:3)
(Industrial plants—Design and construction)
(Machinery industry—Hygienic aspects)

TOPIC TAGS: plastic coating, polyvinylbutyral, metal coating, fluidized bed

fluidized bath (1) which can have various shapes, depending on the parts to be

Card 1/3

"APPROVED FOR RELEASE: 04/03/2001

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CIA-RDP86-00513R001756420018-7"

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CIA-RDP86-00513R001756420018-7

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756420018-7"

TRAKHTENBERG, Iosif Adol'fovich, 1883

The financial results of war; the inflation problem Moskva, Gosfinizdat, 1946.
103 p. (49-44336)

HG255.T7

TRAKHTENBERG, T. A.

5/5
7/2
.7

Kreditno-denezhnaya sistema kapitalizma posle vtoroy mirovoy voyny (The credit-financial system of capitalism after World War II) Moskva, Akademkniga, 1954.

185 p. tables.

At head of title: Akademiya Nauk S SR. Institut Ekonomiki.

MENDEL'SON, Lev Abramovich; VARGA, Ye.S., akademik, red.; TRAKHTENBERG, I.A., akademik, red.; ARZUMANYAN, A.A., red.; MAKAROV, V., red.; MOSKVIHA, R., tekhn.red.

[Theory and history of economic crisis and cycles] Teoriia i istoriia ekonomicheskikh krizisov i tsiklov. [Second enlarged and revised edition of a book "Economic crisis and cycles of the 19th century"] Izd.2., perer. i dop. knigi "Ekonomicheskie krizisy i tsikly XIX veka." Moskva, Izd-vo sotsial'no-ekon.lit-ry, 1959. 766 p. (MIRA 13:4)

1. Chlen-korrespondent AN SSSR (for Arzumanyan).
(Business cycles)

TRAKHTENBERG, Iosif Adol'fovich, akademik; ANIKIN, A.V., kand. ekon. nauk,
otv. red.; ARZUMANYAN, A.A., akademik, red.; BREGEL', E.Ya.,
doktor ekon. nauk, red.; KRONROD, Ya.A., doktor ekon. nauk, red.;
MENDEL'SON, L.A., doktor ekon. nauk, red.[deceased]; SHENAYEV,
V.N., kand. ekon. nauk, red.; KOLOSOVA, T.A., mladshiy nauchnyy
sotr., red.; TOVMOSYAN, M.Ye., red.isd-va; KASHINA, P.S., tekhn.
red.

[Monetary crises, 1821-1938] Denezhnye krizisy, 1821-1938 gg.
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doktor ekon. nauk, red.; MENDEL'SON, L.A., doktor ekon. nauk,
red.; ANIKIN, A.V., kand. ekon. nauk, red.; SHENAYEV, V.N.,
kand. ekon. nauk, red.; KOLOSOVA, T.A., red.; BAKOVETSKAYA,
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(EXERCISE, effects,

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dotsent, kandidat meditsinskikh nauk

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